

Please amend the application as follows:

In the Claims

Please amend Claims 1, 8, 13, 18, 23, 24, 27 and 28 as follows:

- DJ*  
*Sub E3*
1. (Amended Four Times) A humanized immunoglobulin or antigen-binding fragment thereof having binding specificity for  $\alpha 4\beta 7$  integrin, said immunoglobulin or fragment comprising an antigen binding region of nonhuman origin and at least a portion of an immunoglobulin of human origin, said antigen binding region comprising at least one of three complementarity determining regions (CDR1, CDR2 and CDR3) of a light chain variable region and at least one of three complementarity determining regions (CDR1, CDR2 and CDR3) of a heavy chain variable region of the amino acid sequence set forth below [or an amino acid sequence substantially the same as said amino acid sequence] such that the antibody specifically binds to the  $\alpha 4\beta 7$  integrin:

light chain: CDR1 amino acids 44-59 of SEQ ID NO: 12  
CDR2 amino acids 75-81 of SEQ ID NO: 12  
CDR3 amino acids 114-122 of SEQ ID NO: 12

heavy chain: CDR1 amino acids 50-54 of SEQ ID NO: 15  
CDR2 amino acids 69-85 of SEQ ID NO: 15  
CDR3 amino acids 118-129 of SEQ ID NO: 15.

- DJ*  
*Sub E5*
8. (Amended Four Times) A humanized immunoglobulin or antigen-binding fragment thereof having binding specificity for  $\alpha 4\beta 7$  integrin comprising a heavy chain and a light chain,

the light chain comprising complementarity determining regions derived from an antibody of nonhuman origin which binds  $\alpha 4\beta 7$  and a framework region derived from a light chain of human origin, wherein each of said complementarity determining regions (CDR1, CDR2 and CDR3) [has] comprises the amino acid sequence set forth below [or an amino acid sequence substantially the same as said amino acid sequence] such that the immunoglobulin or fragment specifically binds to the  $\alpha 4\beta 7$  integrin:

light chain: CDR1 amino acids 44-59 of SEQ ID NO: 12  
CDR2 amino acids 75-81 of SEQ ID NO: 12  
CDR3 amino acids 114-122 of SEQ ID NO: 12; and

*Sub E5*

the heavy chain comprising complementarity determining regions derived from an antibody of nonhuman origin which binds  $\alpha 4\beta 7$  and a framework region derived from a heavy chain of human origin, wherein each of said complementarity determining regions (CDR1, CDR2 and CDR3) [has] comprises the amino acid sequence set forth below [or an amino acid sequence substantially the same as said amino acid sequence] such that the immunoglobulin or fragment specifically binds to the  $\alpha 4\beta 7$  integrin:

heavy chain: CDR1 amino acids 50-54 of SEQ ID NO: 15  
CDR2 amino acids 69-85 of SEQ ID NO: 15  
CDR3 amino acids 118-129 of SEQ ID NO: 15.

- Sub E7*
13. (Amended Four Times) A humanized immunoglobulin light chain or fragment thereof comprising CDR1, CDR2 and CDR3 of the light chain of murine Act-1 antibody, and a human light chain framework region, said complementarity determining regions comprising the amino acid [sequence] sequences set forth below [or an amino acid sequence substantially the same as said amino acid sequence] such that an antibody comprising said light chain or fragment thereof specifically binds to the  $\alpha 4\beta 7$  integrin:

light chain: CDR1 amino acids 44-59 of SEQ ID NO: 12  
CDR2 amino acids 75-81 of SEQ ID NO: 12  
CDR3 amino acids 114-122 of SEQ ID NO: 12.

- Sub EA*
18. (Amended Four Times) A humanized immunoglobulin heavy chain or fragment thereof comprising CDR1, CDR2 and CDR3 of the heavy chain of the murine Act-1 antibody, and a human heavy chain framework region, said complementarity determining regions comprising the amino acid [sequence] sequences set forth below [or an amino acid sequence substantially the same as said amino acid sequence] such that an antibody comprising said heavy chain or fragment thereof specifically binds to the  $\alpha 4\beta 7$  integrin:

heavy chain: CDR1 amino acids 50-54 of SEQ ID NO: 15  
CDR2 amino acids 69-85 of SEQ ID NO: 15  
CDR3 amino acids 118-129 of SEQ ID NO: 15.

- D Sub EII*
23. (Twice Amended) A humanized immunoglobulin light chain, the amino acid sequence of said light chain [having an amino acid sequence] comprising at least a functional portion of the light chain variable region amino acid sequence shown in Figure 7 (SEQ ID NO:12), wherein said functional portion has binding specificity for  $\alpha 4\beta 7$  integrin.
- D*
24. (Amended) A humanized immunoglobulin light chain of Claim 23, wherein said amino acid sequence of said light chain [having an amino acid sequence comprising] comprises the signal peptide sequence shown in Figure 7 (SEQ ID NO:12) and at least a functional portion of the light chain variable region amino acid sequence shown in Figure 7 (SEQ ID NO:12).
- D*
27. (Twice Amended) A humanized immunoglobulin heavy chain, the amino acid sequence of said heavy chain [having an amino acid sequence] comprising at least a functional portion of the heavy chain variable region amino acid sequence shown in Figure 9 (SEQ ID NO:15), wherein said functional portion has binding specificity for  $\alpha 4\beta 7$  integrin.
- D*
28. (Amended) A humanized immunoglobulin heavy chain of Claim 27, wherein said amino acid sequence of said heavy chain [having an amino acid sequence comprising] comprises the signal peptide sequence shown in Figure 9 (SEQ ID NO:15) and at least a functional portion of the heavy chain variable region amino acid sequence shown in Figure 9 (SEQ ID NO:15).

#### REMARKS

Claims 1, 8, 13, 18, 23, 24, 27 and 28 have been amended.

Claims 1, 8, 13 and 18 have been amended to delete "or an amino acid sequence substantially the same as said amino acid sequence".

Claim 8 has been further amended to insert "determining" between "complementarity" and "regions" at lines 6 and 15 of the claim, and to delete "has" and insert therefore "comprises".

Claims 13 and 18 have been further amended to replace "sequence" with "sequences".

Claim 18 has also been amended to recite "murine Act-1 antibody".

Claim 23 has been amended to recite "the amino acid sequence of said light chain comprising".